

U.S. Department of Energy Booth Education Sessions

LIGHTFAIR International 2015
May 5–7, 2015 • Javits Center, New York City

TUESDAY, MAY 5, 2015

10:30 a.m.	It's 2015: What's Next for SSL? James Brodrick, U.S. Department of Energy In the last decade, SSL has evolved from a novelty to a viable option for most lighting applications. In the next decade, advanced lighting systems promise to reinvent lighting as we know it. Learn how DOE and industry are collaborating to unlock the full potential of future lighting systems.
11:00 a.m.	Future Lighting Systems: The Path to Optimized Energy Performance Michael Poplawski, Pacific Northwest National Laboratory LED technology is reinventing the role lighting systems will play in our environment. The convergence of intelligent and controllable LED sources, sensors, and communication networks promises to offer new value propositions, business models, and opportunities for managing the energy consumption of lighting and other systems. Learn what government and industry are doing to remove barriers to optimized energy performance in future lighting systems and buildings.
11:30 a.m.	Baking LEDs in Yuma: A One-Year Update Andrea Wilkerson, Pacific Northwest National Laboratory DOE is monitoring LED luminaires installed near Yuma, AZ—a high ambient temperature and solar radiation region. A comparison of initial illuminance measurements with measurements after 2,500 and 5,000 hours of operation will be presented, along with potential reasons for the measured changes.
12:00 p.m.	Chromaticity Adrift: Understanding LED Color Stability Michael Royer, Pacific Northwest National Laboratory With long lifetimes a key factor during specification, color stability has become a concern after some early evidence of unacceptable performance. See the latest data and learn what is being done to address the issue.
12:30 p.m.	BREAK
1:00 p.m.	Next Generation Luminaires™ Awards Presentation Ruth Taylor, Pacific Northwest National Laboratory Join DOE, IES, and IALD for the presentation of the 2015 NGL awards, recognizing the best of the best indoor and outdoor LED lighting products.

2:00 p.m.	BREAK
2:30 p.m.	<p>How New Methods for Evaluating Color Rendering Will Affect You Michael Royer, Pacific Northwest National Laboratory</p> <p>New color rendering metrics are expected to reach the industry in the near future. Learn how and why they were developed, how to use them, and how they will impact manufacturers, specifiers, and others.</p>
3:00 p.m.	<p>LEDs at 5+ Years: The Scoop on Street and Area Lighting Applications Bruce Kinzey, Pacific Northwest National Laboratory</p> <p>LEDs have passed the five-year mark in large-scale outdoor lighting installations. By now there are hundreds of thousands of LED street and area lights installed across every region of the country, and products are available for virtually every application. This talk reviews how they have fared in the external environment and presents current and coming trends.</p>
3:30 p.m.	<p>Flicker: Understanding the New IEEE Recommended Practice Naomi Miller, Pacific Northwest National Laboratory Brad Lehman, Northeastern University</p> <p>The IEEE P1789 Committee is close to publishing a recommended practice for limiting flicker in LED light sources. Come hear how and why it was developed, what it recommends, and its possible impact on the lighting industry.</p>
4:00 p.m.	<p>Intelligent and Adaptive Lighting Systems of the Future Tess Perrin and Michael Poplawski, Pacific Northwest National Laboratory</p> <p>The convergence of intelligent and controllable LED sources, sensors, and communication networks is creating the potential for systems to adapt to dynamic changes in their environment. Hear how the museum community is hoping to leverage this potential to ultimately extend exhibition life by reducing exposure, enhance viewer experience while pursuing authentic representation, and reduce energy consumption and monitoring costs.</p>
4:30 p.m.	<p>Specifying Color Tunable Luminaires: What You Need to Know Naomi Miller, Pacific Northwest National Laboratory Marty Salzberg, Cline Bettridge Bernstein Lighting Design</p> <p>With the touch of a button you can now tune your office lighting to daylight or candlelight. Are these color-changing luminaires a gimmick or a useful tool? What are the likely applications, what do you need to know to specify them, and what controls do they use?</p>

WEDNESDAY, MAY 6, 2015

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THURSDAY, MAY 7, 2015

9:30 a.m.	<p>It's 2015: What's Next for SSL? James Brodrick, U.S. Department of Energy</p> <p>In the last decade, SSL has evolved from a novelty to a viable option for most lighting applications. In the next decade, advanced lighting systems promise to reinvent lighting as we know it. Learn how DOE and industry are collaborating to unlock the full potential of future lighting systems.</p>
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